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WATER SUPPLY OUTLOOK FOR UTAH



U. S. DEPARTMENT of AGRICULTURE ★ SOIL CONSERVATION SERVICE

Collaborating with

**UTAH STATE DEPARTMENT OF NATURAL RESOURCES
-- DIVISION OF WATER RIGHTS**

Data included in this report were obtained by the agencies named above in cooperation with Federal, State and private organizations listed inside the back cover of this report.

AS OF
MAR. 1, 1978

TO RECIPIENTS OF WATER SUPPLY OUTLOOK REPORTS:

Most of the usable water in western states originates as mountain snowfall. This snowfall accumulates during the winter and spring, several months before the snow melts and appears as streamflow. Since the runoff from precipitation as snow is delayed, estimates of snowmelt runoff can be made well in advance of its occurrence. Streamflow forecasts published in this report are based principally on measurement of the water equivalent of the mountain snowpack.

Forecasts become more accurate as more of the data affecting runoff are measured. All forecasts assume that climatic factors during the remainder of the snow accumulation and melt season will interact with a resultant average effect on runoff. Early season forecasts are therefore subject to a greater change than those made on later dates.

The snow course measurement is obtained by sampling snow depth and water equivalent at surveyed and marked locations in mountain areas. A total of about ten samples are taken at each location. The average of these are reported as snow depth and water equivalent. These measurements are repeated in the same location near the same dates each year.

Snow surveys are made monthly or semi-monthly from January 1 through June 1 in most states. There are about 1900 snow courses in Western United States and in the Columbia Basin in British Columbia. Networks of automatic snow water equivalent and related data sensing devices, along with radio telemetry are expanding and will provide a continuous record of snow water and other parameters at key locations.

Detailed data on snow course and soil moisture measurements are presented in state and local reports. Other data on reservoir storage, summaries of precipitation, current streamflow, and soil moisture conditions at valley elevations are also included. The report for Western United States presents a broad picture of water supply outlook conditions, including selected streamflow forecasts, summary of snow accumulation to date, and storage in larger reservoirs.

Snow survey and soil moisture data for the period of record are published by the Soil Conservation Service by states about every five years. Data for the current year is summarized in a West-wide basic data summary and published about October 1 of each year.

COVER PHOTO: SOME OF THE DATA IN THIS REPORT HAVE BEEN RECEIVED THROUGH THE SOIL CONSERVATION SERVICE'S NEW SNOTEL SYSTEM WHICH TRANSMITS INFORMATION VIA THE SPACE AGED METEOR BURST METHOD FROM DATA SITES TO MASTER STATIONS LIKE THESE.

PUBLISHED BY SOIL CONSERVATION SERVICE

The Soil Conservation Service publishes reports following the principal snow survey dates from January 1 through June 1 in cooperation with state water administrators, agricultural experiment stations and others. Copies of the reports for Western United States and all state reports may be obtained from Soil Conservation Service, West Technical Service Center, Room 510, 511 N.W. Broadway, Portland, Oregon 97209.

Copies of state and local reports may also be obtained from state offices of the Soil Conservation Service in the following states:

STATE	ADDRESS
Alaska	Room 129, 2221 East Northern Lights Blvd., Anchorage, Alaska 99504
Arizona	Room 3008, Federal Building, Phoenix, Arizona 85025
Colorado (N. Mex.)	P. O. Box 17107, Denver, Colorado 80217
Idaho	Room 345, 304 N. 8th. St., Boise, Idaho 83702
Montana	P. O. Box 98, Bozeman, Montana 59715
Nevada	P. O. Box 4850, Reno Nevada 89505
Oregon	1220 S.W. Third Ave., Portland, Oregon 97204
Utah	4012 Federal Bldg., 125 South State St., Salt Lake City, Utah 84138
Washington	360 U.S. Court House, Spokane, Washington 99201
Wyoming	P. O. Box 2440, Casper, Wyoming 82602

PUBLISHED BY OTHER AGENCIES

Water Supply Outlook reports prepared by other agencies include a report for California by the Water Supply Forecast and Snow Surveys Unit, California Department of Water Resources, P.O. Box 388, Sacramento, California 95802 --- for British Columbia by the Ministry of the Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia V8V 1X5 --- for Yukon Territory by the Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory Y1A 3V1 --- and for Alberta, Saskatchewan, and N.W.T. by the Water Survey of Canada, Inland Waters Branch, 110-12 Avenue S.W., Calgary, Alberta T3C 1A6.



WATER SUPPLY OUTLOOK FOR UTAH

and
FEDERAL - STATE - PRIVATE COOPERATIVE SNOW SURVEYS

Issued by

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In Cooperation with

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SOIL CONSERVATION SERVICE
SNOW SURVEY SECTION
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Based on Snow Surveys Made on UTAH and BEAR RIVER WATERSHEDS

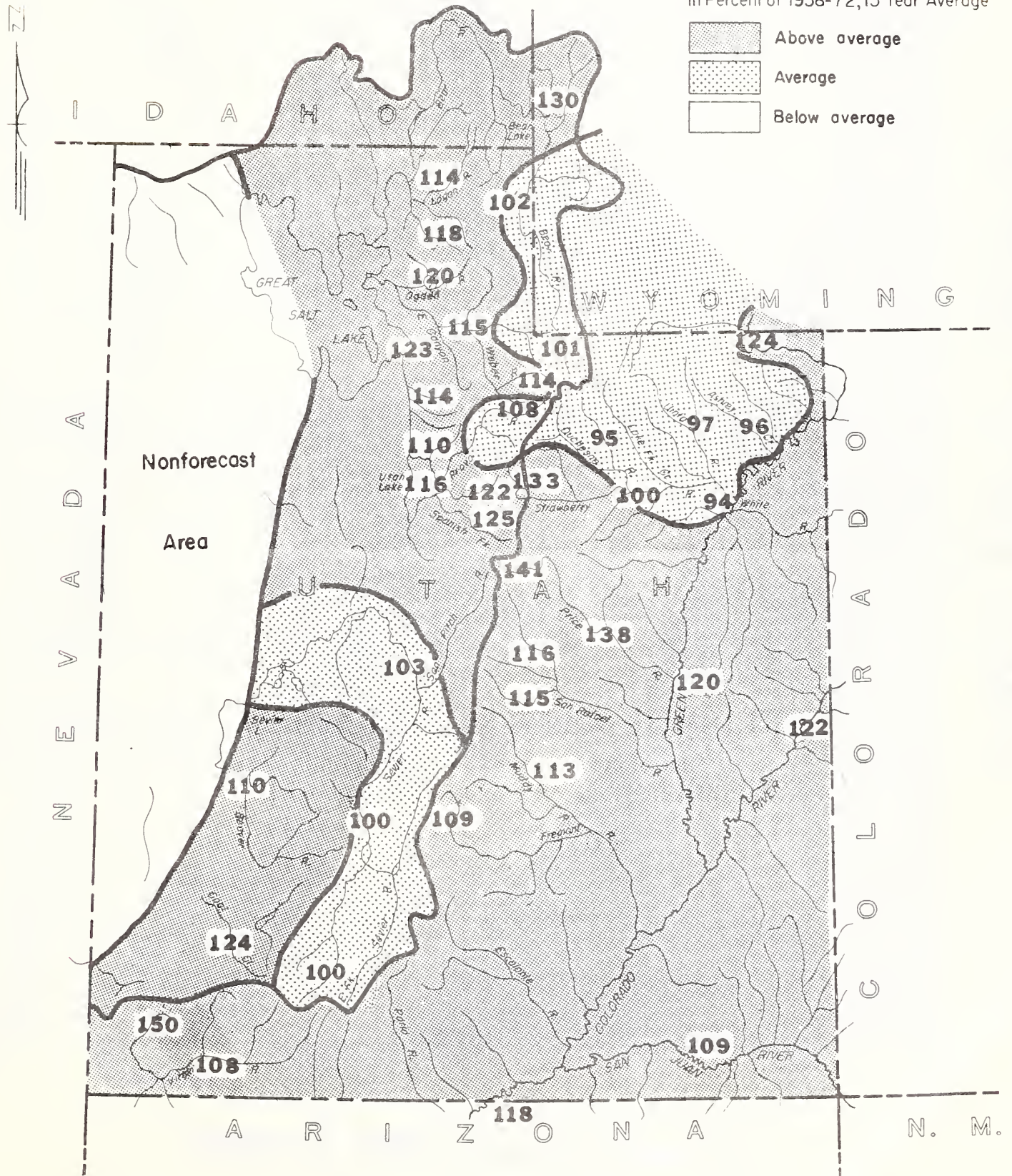
Approximate Date



Above average

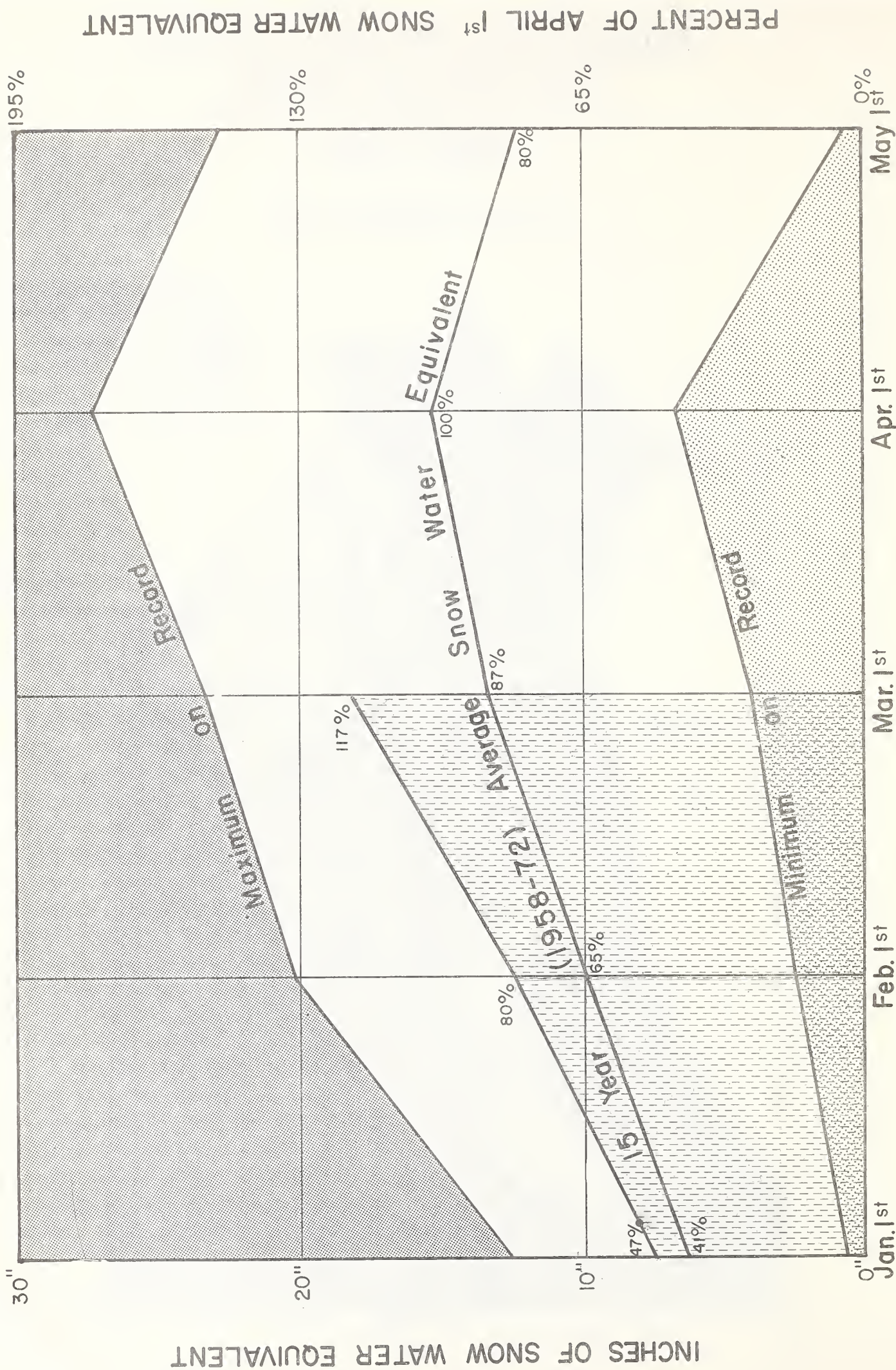
Average

Below average



UTAH'S WINTER SNOWPACK

Data based on 51 selected snow courses



1978 Snowpack



WATER SUPPLY OUTLOOK

as of
MARCH 1, 1978

* * * * *
* Utah's 1978 water supply outlook ranges from below average *
* for some water users in Uintah and Sevier Basins to near *
* average for the rest of the state. Snow cover ranges from *
* 96% of the March 1 average above Tooele to 185% of average *
* in the Enterprise-New Harmony area. Reservoir storage *
* totals 91% of the March 1 average, but still 20% less than *
* a year ago. Streamflow forecasts range from 93 to 150% *
* of average. *
* * * * *

SNOW COVER

Heavy February storms increased the snow water content statewide at a faster than normal rate. Basin snow cover now ranges from 96% of the March 1 average on the Oquirrh Mountains above Tooele to 185% on the mountains of south-western Utah between Enterprise and the Santa Clara River. The Uinta Mountains improved, but are still only 5 to 20% above the March 1 average and need much more to give them an adequate water supply this year.

The Upper Sevier and Virgin watersheds gained 25 to 40% during February and are now 130 to 180% respectively. The central part of the state gained about 10% and are now about 130 to 140% of the March 1 average.

The Provo, Salt Lake front, and Ogden watersheds showed good improvement during February and are now 136, 118, and 143% of their March 1 averages respectively.

Bear River and Weber River watersheds did not receive average increases in snow water content. The Upper Bear decreased 9% and is now 139% of average. The Lower Bear lost 5% during the month and is now 134% of average. The Weber lost 3% and is now 113% of the March 1 average.

The Blue Mountains above Monticello and Blanding are now 124% of the March 1 average snow water content and the LaSal's above Moab are 151% of their March 1 average.

PRECIPITATION

February precipitation at mountain stations ranged from half average to average on the Lower Bear to better than twice average at stations in south-western and north-eastern Utah mountains. Some stations in the south-western area increased as much again the week around March 1 as all during the month of February (7.5 inches). Other areas of the state were generally average to 150% of the February average.

WATER SUPPLY OUTLOOK (continued)

SOIL MOISTURE

Soil moisture was improved at lower elevations by warm February rain, but most higher elevations still have a soil profile which is below average below the top 12 to 24 inches.

RESERVOIR STORAGE

Reservoir storage totals 91% of the March 1 average, but 20% less than last year at 24 of Utah's key irrigation reservoirs. Those reservoirs significantly below average are those on the Sevier, Beaver, Uintah Basin, and Price River. Most reservoirs on these watersheds are not expected to fill this season.

STREAMFLOW FORECASTS

Streamflow forecasts for the April-July period improved 15 to 30% in southern Utah and as much as 5 to 20% in the northern part of the state. Some forecasts in northern Utah on the Weber, Bear and Ogden rivers stayed about the same as on February 1. Uintah Basin forecasts raised 10 to 15% and flows are now expected to be near average. Colorado River forecasts dropped 3 to 7% since February 1 due to less than normal snow accumulation on upstream watersheds in Colorado.

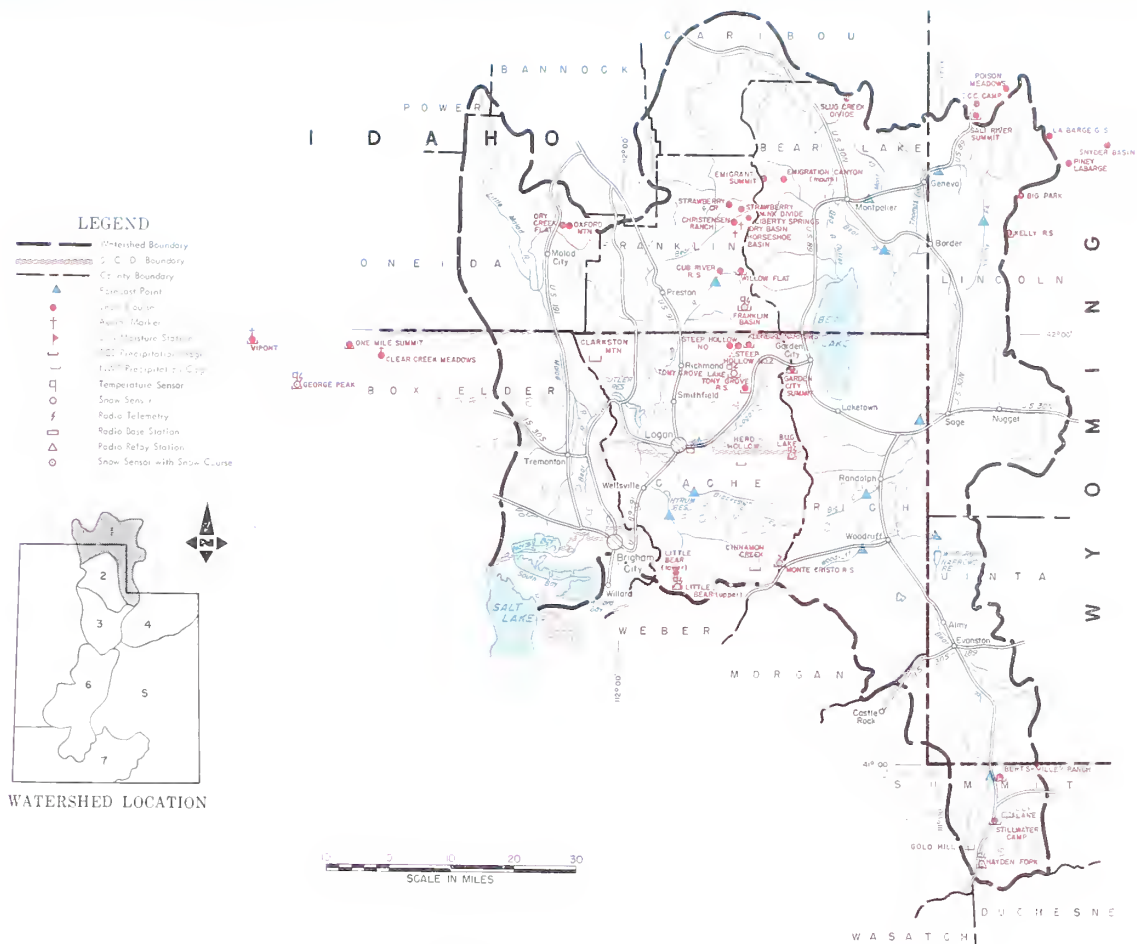
Most water users in Utah are expected to have adequate water supplies this season except those depending only on storage water that is well below average after last years heavy use and low flows. Areas which may be affected by short reservoir supplies are the Sevier, Lower Beaver, and Uintah Basin.

Maximum mean daily peak flows are not expected to cause problems this season unless heavy precipitation and warmer than average temperatures occur during the melt season. This condition has already occurred in the south-west corner of the state causing flooding on Shoal Creek, Santa Clara River, and other tributaries of the Virgin River. Some cropland has been flooded by out of bank flows on these streams.

WATER SUPPLY OUTLOOK

BEAR RIVER BASIN in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER did not receive normal increases in February, and now ranges from 139% of average on the Upper Bear to 134% on the Lower Bear below Harer, Idaho. Logan River is now 126% of average and Raft River Mountains in Utah's northwest corner is 107% of the March 1 average.

PRECIPITATION at mountain stations during February ranged from 53% of average at Klondike Narrows on the Logan River to 106% at Salt River Summit.

SOIL MOISTURE is still less than average for the total profile at higher watershed locations, but near average at lower elevations.

RESERVOIR STORAGE is below average in Bear Lake and Woodruff Narrows, but near average in Hyrum and Porcupine reservoirs.

STREAMFLOW FORECASTS range from 101% of the April-July average on the Bear at the Utah-Wyoming State Line to 130% on Smith's and Thomas Forks and 131% on Big Creek near Randolph. Bear at Harer, Idaho, is forecast 111%, Logan River is forecast 114%, Blacksmith Fork 115%, Little Bear 118%, and Cub River 116% of average. Maximum mean daily peak flows in this area are expected to be about average unless precipitation or temperature extremes occur to cause snowmelt at a faster than normal rate.

BEAR RIVER BASIN in UTAH

STREAMFLOW FORECASTS

STREAMFLOW FORECASTS		THIS YEAR		PAST RECORD	
BASIN, STREAM and/or FORECAST POINT	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year ²	Average ⁺
BEAR RIVER					
Bear nr UT-Wyo. State Line	113	101	Apr-July	41	112
Bear nr Woodruff	136	103	Apr-July	28	131
Woodruff Crk nr Woodruff, UT	17.4	113	Apr-July	2.7	15.4
Big Creek nr Randolph, Utah	5.5	131	Apr-July	--	4.2b
Bear nr Randolph	104	102	Apr-July	3.4	102
Thomas Fork nr Ut-Wy State Ln	42	130	Apr-Sept	3.8	32
Smith's Fork nr Border, Wyo.	150	130	Apr-Sept	26.8	116
Bear at Harer, Idaho ¹	330	111	Apr-Sept	34.6	297
Logan nr Logan ¹	129	114	Apr-July	34	113
Blacksmith Fork nr Hyrum	55	115	Apr-July	16.7	48
Little Bear nr Paradise	40	118	Apr-June	6.3	34
Cub River nr Preston, ID	58	116	Apr-Sept	--	50
1 - Observed flow corrected for	change in storage and			diversions	
2 - Provisional flows - Subject	to correction				
b - Average of all past record	less than 15 years				

- 1 - Observed flow corrected for change in storage and diversions
 2 - Provisional flows - Subject to correction
 b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
BEAR RIVER	29	532	135
UPPER BEAR RIVER	7	535	139
LOWER BEAR RIVER	22	531	134
LOGAN RIVER	4	442	126
RAFT RIVER	3	459	107

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Useable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average ⁺
BEAR RIVER	Bear Lake	1421.0	785.5	1040.3	958.3
	Woodruff Narrows	26.5	4.0	3.0e	21.6
	Birch Creek		0.8	--	--
	Woodruff Creek		1.2	--	--
	Hyrum	15.3	10.2	13.1	10.7
LITTLE BEAR	Porcupine	11.3	3.5	3.9	3.6

+ - 1958-72 15 Year Average Period
 e - estimated

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a)	
	Forecast Range	Average ⁺
Big Creek nr Randolph	40-80	41b
Logan River nr Logan	760-1300	984
Woodruff Creek nr Woodruff	250-350	240
Little Bear nr Paradise	450-550	473

(a) - Maximum mean daily peak flow

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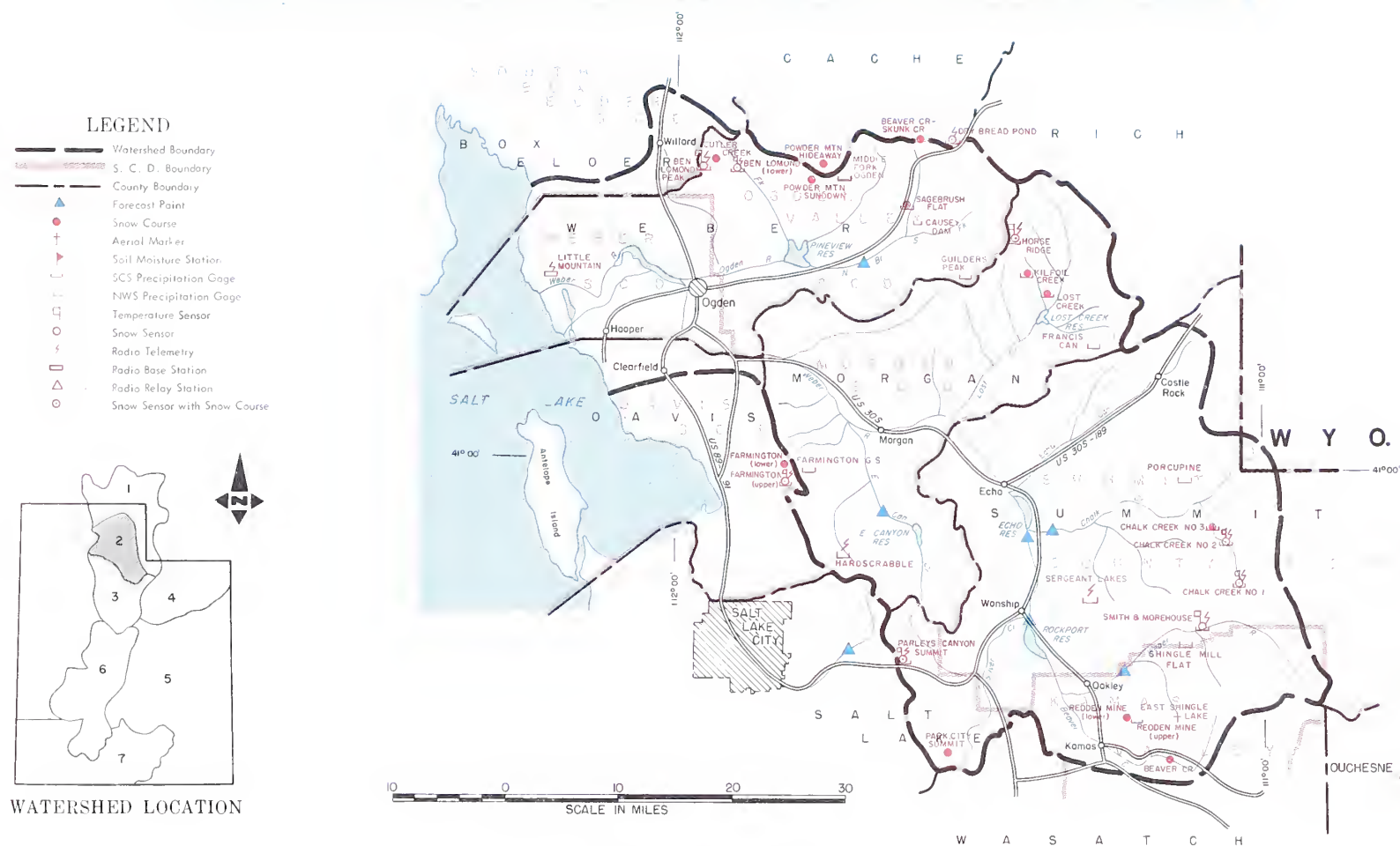
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

WEBER-OGDEN WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 113% of the March 1 average on the Weber River to 143% on the Ogden.

PRECIPITATION at mountain locations ranged from 52% of average at Causey Dam to 188% at Ben Lomond Trail across the valley on the Ogden River. Weber precipitation ranged from 88% at Chalk Creek #3 to 130% at Farmington Lower and 129% at Parleys Summit.

SOIL MOISTURE is generally below average at medium and high elevations, but average or better at most valley locations.

RESERVOIR STORAGE has improved and is now 98% of the March 1 average on the Ogden and 102% on the Weber. Lost Creek is the lowest at 81% of average.

STREAMFLOW FORECASTS range from 97% on Chalk Creek to 139% on Hardscrabble Creek. South Fork Ogden is forecast 118% and Pineview Inflow 120% of the April-June average. The Weber is forecast 114% at Oakley, 117% for Rockport Inflow and 115% near Coalville. East Canyon Creek is forecast 123% and Lost Creek 116% of average. Maximum mean daily peak flows are expected to range from near normal to 1½ times normal in this area, assuming normal temperature and precipitation during the melt period.

WEBER-OGDEN WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year ³	Average ⁴
<u>WEBER-OGDEN RIVERS</u>					
Weber nr Oakley	114	114	Apr-June	31.6	100
Rockport Reservoir Inflow ¹	122	117	Apr-June	--	104
Chalk Creek at Coalville	31	97	Apr-June	4.2	32
Weber nr Coalville	130	115	Apr-June	14.3	113
Lost Creek nr Croydon, Utah ¹	15.9	116	Apr-June	2.5	13.7
East Canyon Creek nr Morgan	27	123	Apr-June	11.4	22
Hardscrabble Crk nr Porterville	20	139	Apr-June	--	14.4b
South Fork Ogden nr Huntsville	59	118	Apr-June	8.5	50
Pineview Reservoir Inflow ²	132	120	Apr-June	13.5	110
<u>JORDAN RIVER & SALT LAKE</u>					
Farmington Crk nr Farmington	10.1	129	Apr-July	--	7.8
1 - Observed flow corrected for change in storage and diversions					
2 - Inflow record as computed by U.S. Bureau of Reclamation					
3 - Provisional flows - Subject to Correction					
b - Average of all past record - less than 15 years					

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
OGDEN RIVER	6	643	143
WEBER RIVER	10	347	113

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
OGDEN	Causey	6.9	3.9	2.6	2.2
	Pineview	110.1	38.2	54.4	40.6
WEBER	East Canyon	48.1	21.1	31.8	19.5
	Echo	73.9	45.1	47.6	43.5
	Lost Creek	20.0	10.1	13.0	12.6
	Rockport	60.9	26.6	26.0	27.6
	Willard Bay	193.3	127.1	146.1	121.5
+ - 1958-72 15 Year Average Period					

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a)	
	Forecast Range	Average †
Lost Creek nr Croydon	200-300	206b
South Fork Ogden nr Huntsville	650-900	697
Chalk Creek nr Coalville	150-550	373
(a) - Maximum mean daily peak flow		

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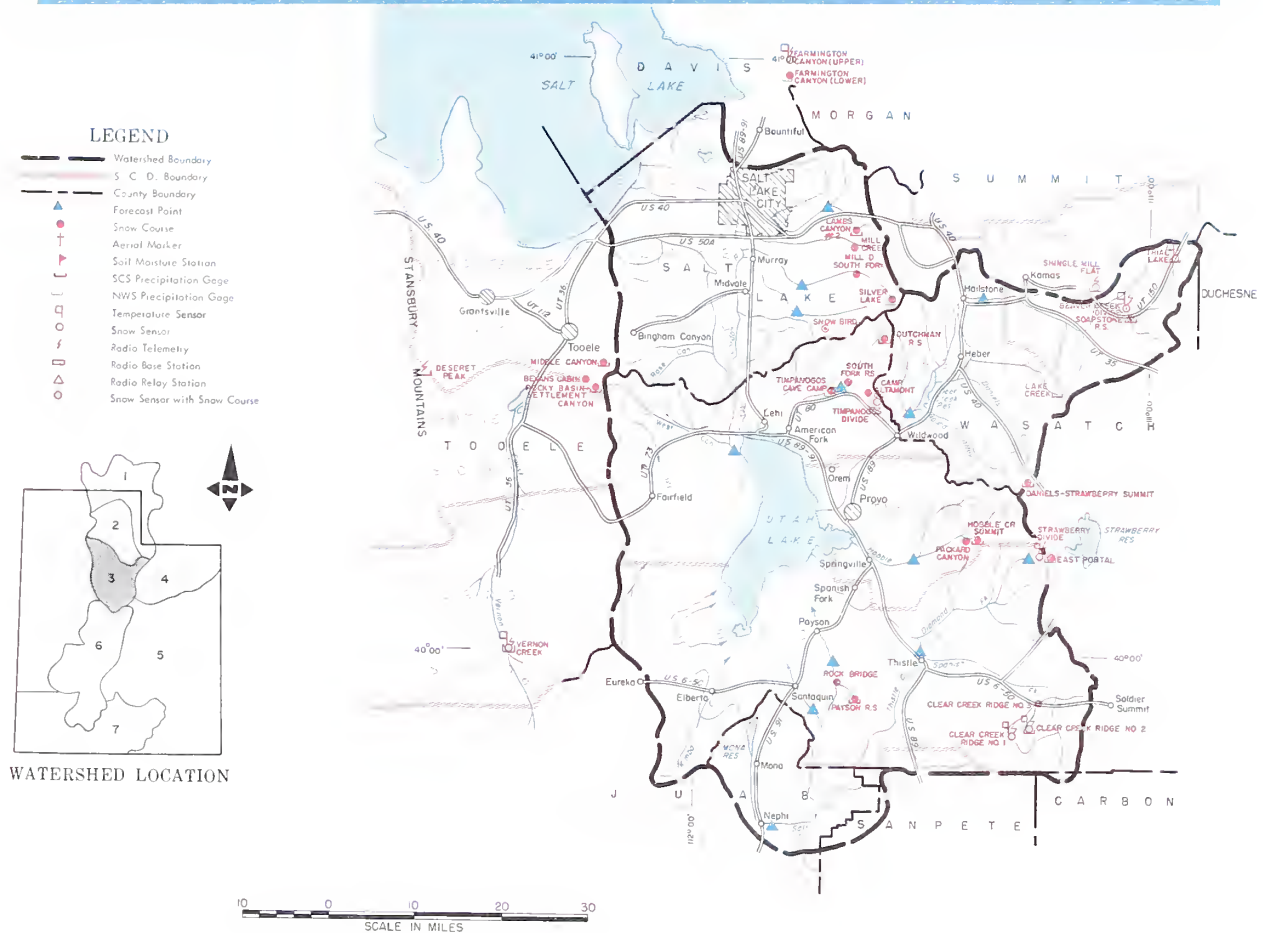
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"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



SNOW COVER now ranges from 96% of the March 1 average above Tooele to 136% on Utah Lake tributaries. Watersheds along the Salt Lake front are 118% of average.

PRECIPITATION at mountain stations ranged from 91% of average at Mt. Dell Dam to 176% at Timpanogos Divide. Trial Lake was 162% and Silver Lake 117% of the February average.

SOIL MOISTURE is below average on the upper watersheds, but valley soils are very wet.

RESERVOIR STORAGE is 112% of the March 1 average in Utah Lake, 124% of average in Strawberry, but only 75% of average in Deer Creek. Settlement Creek and Vernon Creek each have 400 acre feet and should fill this year.

STREAMFLOW FORECASTS range from 108% of average on the Provo to 214% on Vernon Creek. Settlement Creek above Tooele is estimated at 114% of average. Strawberry Inflow is forecast 133%, Spanish Fork 125%, Hobble Creek 122%, American Fork 110%, and Utah Lake Inflow 116%. Little Cottonwood above Salt Lake is forecast 111%, Big Cottonwood 113%, and Parleys 114%. Maximum mean daily peak flows are not expected to be a problem unless warmer than normal temperatures cause early runoff on Vernon Creek.

UTAH LAKE, JORDAN RIVER and TOOELE VALLEY WATERSHEDS in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	THOUSAND ACRE FEET	PERCENT OF AVERAGE		THOUSAND ACRE FEET	
				Last Year	Average
PROVO RIVER AND UTAH LAKE					
Provo nr Hailstone ¹	110	108	Apr-July	31.5	102
Provo below Deer Creek Dam ¹	120	108	Apr-July	50.1	111
American Fork nr American Fork	32	110	Apr-July	7.5a	29
Hobble Creek nr Springville ¹	19.5	122	Apr-July	--	16
Strawberry Reservoir Inflow ¹	60	133	Apr-July	5.7	45
Spanish Fork at Thistle	40	125	Apr-July	--	32
Payson Creek nr Payson	8.3	114	Apr-July	--	6.3
Utah Lake Inflow	242	116	Apr-July	124.7	208
JORDAN RIVER & SALT LAKE					
Little Cottonwood Crk nr SLC	39	111	Apr-July	19.8	35
Big Cottonwood nr SLC	41	113	Apr-July	18.8	36
Parley's Creek nr SLC	13.1	114	Apr-July	3.5	11.5
TOOELE VALLEY					
Vernon Creek nr Vernon	1.5	214	Mar-July	0.6	0.7
Settlement Crk nr Tooele	2.5	114	Apr-July	--	2.2

1 - Observed flow corrected for change in storage and diversions
 2 - Provisional flows - Subject to correction
 a - Partly estimated

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Gauges Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PROVO RIVER & UTAH LAKE	9	449	136
JORDAN RIVER & SALT LAKE	3	312	118
TOOELE VALLEY	1	198	96

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
SPANISH FORK	Strawberry	270.0	143.8	207.2	116.4
	Utah Lake	883.9	675.8	758.0	604.0
UTAH LAKE	Settlement Creek	1.2	0.4	0.6	--
	Vernon Creek	0.6	0.4	0.5	--
PROVO	Deer Creek	149.7	71.6	89.7	95.3

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a)	
	Forecast Range	Average
Hobble Creek nr Springville	300-500	210
Spanish Fork nr Thistle	350-700	365
Big Cottonwood nr Salt Lake City	375-525	310
(a) - Maximum mean daily peak flow		

WMA 500-1001100-00000 1974 11-11-22027X

1950-1972 period

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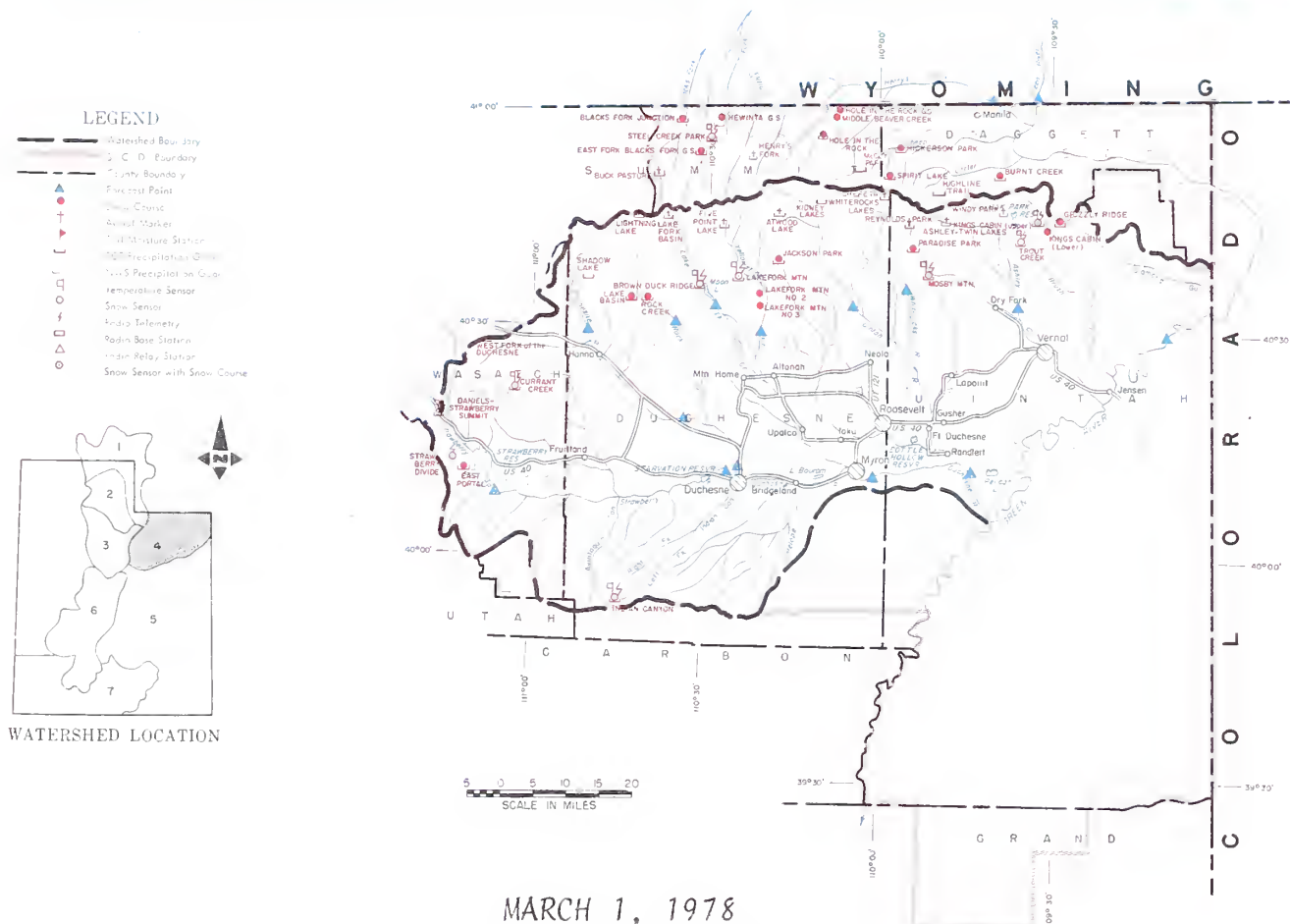
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WATER SUPPLY OUTLOOK

UINTAH BASIN and DAGGETT SCD's in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



THE WATER SUPPLY OUTLOOK IS STILL BELOW AVERAGE

SNOW COVER ranges from 105% on the Black's Fork drainage up to 123% of the March 1 average on Lakefork and Yellowstone Creeks. Snow water contents are some three to eight times greater than those surveyed last year at this time.

PRECIPITATION as measured at mountain stations for the month of February shows a range from 117% to 215% of average. Catches for the October through February period vary from 92% to 138% of average.

SOIL MOISTURE conditions have improved at the lower elevations, however, higher watershed soils are not fully recharged.

RESERVOIR STORAGE is still below average for this time of year. Moon Lake has only 65% of its average useable storage, and Steinaker only 40%. Steinaker is still 12,000 acre feet below last years level.

STREAMFLOW FORECASTS in the basin are projected to be near average, and range from 94% of average for the April-July period on the Yellowstone to 127% on Currant Creek. Flaming Gorge Inflow is expected to be 1,450,000 acre feet for 124% of average. The Duchesne is forecast at 101% near Tabiona, 105% at Duchesne, 115% at Myton, and 112% at Randlett.

UINTAH BASIN and DAGGETT SCD's in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR			PAST RECORD	
	FORECAST		FORECAST PERIOD	THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year 2	Average †
DUCHESNE RIVER					
Duchesne nr Tabiona ¹	105	101	Apr-July	19.2	104
Duchesne at Duchesne ¹	185	105	Apr-July	48.4	177
Strawberry at Duchesne	70	125	Apr-July	10.1	56
Rock Creek nr Mtn. Home	90	95	Apr-July	34.5	95
Currant Creek nr Fruitlapd	25	127	Apr-July	--	19.7
Lakefork below Moon Lake ¹	67	97	Apr-July	30.2	69
Yellowstone nr Altonah	65	94	Apr-July	29.1	65
Duchesne at Myton ¹	250	115	Apr-July	8.3	218
Whiterocks nr Whiterock	55	95	Apr-July	24.2	58
Uintah nr Neola	85	97	Apr-July	70.5	88
Duchesne at Randlett ¹	300	112	Apr-July	13.1	267
FLAMING GORGE TO DUCHESNE RIVER					
Henry's Fork at Linwood	45	100	Apr-Sept	3.6	45
Black's Fork at Millburne	90	96	Apr-July	43.6	94
Flaming Gorge Inflow ¹	1450	124	Apr-July	233.0	1174
Ashley Creek nr Vernal	48	96	Apr-July	14.2	50

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Gauges Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
DUCHESNE RIVER - TOTAL	8	515	123
LAKEFORK-YELLOWSTONE CREEKS	2	845	123
STRAWBERRY RIVER	3	407	131
UINTAH - WHITEROCKS RIVERS	2	844	112
ASHLEY CREEK	2	894	106
BLACK'S FORK	3	300	105
1 - Observed flow corrected for change in storage and diversions 2 - Provisional flows - Subject to correction			

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
ASHLEY CREEK	Steinaker	33.3	8.3	20.3	20.8
GREEN RIVER	Flaming Gorge	3749.0	1987.1	2934.0	1588.0
LAKE FORK	Moon Lake	35.8	11.5	7.2	17.8
STRAWBERRY	Starvation	165.3	127.6	165.8	--
UINTAH	Bottle Hollow	11.3	10.1	10.6	--

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a)	
	Forecast Range	Average †
Strawberry at Duchesne	750-1500	628
Ashley Creek nr Vernal	600-1300	906
(a) - Maximum mean daily peak flow		

+ - 1958-72 15 Year Average Period

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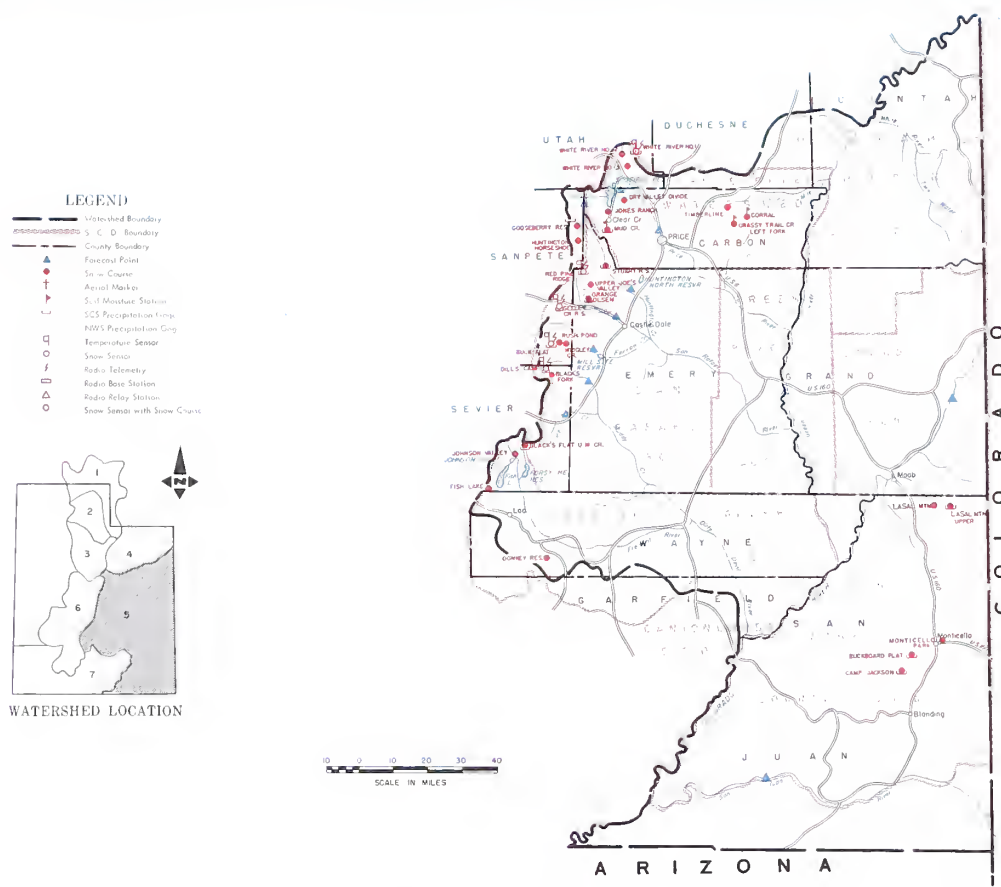
FIRST CLASS MAIL

"The Conservation of Water begins with the Snow Survey"

WATER SUPPLY OUTLOOK

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS NEAR AVERAGE

SNOW COVER ranges from 130% of the March 1 average on the Price River to 166% on Fremont River and 143% on San Rafael River. LaSal mountains are now 151% and Blue Mountains are 124% of the March 1 average.

PRECIPITATION at mountain stations ranged from 121% at Mud Creek to better than 200% at Orange Olsen and Buck Flat during February.

SOIL MOISTURE on the upper watershed is still below average except in the top 12 to 24 inches.

RESERVOIR STORAGE is still below average in Scofield, but near average in Joes Valley, and Huntington North. Mill Site is about 500 acre feet less than last year at this time, but should fill if runoff progresses as expected.

STREAMFLOW FORECASTS range from 109% on Seven Mile Creek to 143% on Gooseberry Creek near Scofield. Scofield Inflow is forecast at 141% and the Price near Heiner 138% of the April-July period. Huntington Creek is forecast 116%, Cottonwood 111%, Ferron 115%, and Muddy 113%. Mill Creek near Moab is forecast 112%, San Juan near Bluff 109%, Green at Green River 120%, and Colorado near Cisco 122%. Maximum mean daily peak flows are not expected to be a problem unless excessive temperatures and/or precipitation occurs during the runoff period.

CARBON, EMERY, WAYNE, GRAND and SAN JUAN COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	Forecast	Percent of Average		THOUSAND ACRE FEET	
	Thousand Acre Feet			Last Year †	Average †
PRICE RIVER					
Gooseberry Crk nr Scofield	14.8	143	Apr-July	2.2	10.0
Scofield Reservoir Inflow	48	141	Apr-July	4.2	34
Price nr Heiner	88	138	Apr-July	--	64b
SAN RAFAEL RIVER					
Huntington Crk nr Huntington	52	116	Apr-July	11.3	45
Cottonwood Crk nr Orangeville	51	111	Apr-July	10.4	46b
Ferron Creek nr Ferron	40	115	Apr-July	15.9	35
MUDDY CREEK					
Muddy Creek nr Emery	20.0	113	Apr-July	3.5	17.7
UPPER COLORADO BASIN					
Colorado nr Cisco, Utah	3450	122	Apr-July	534.6	2835
Green at Green River, Utah	3400	120	Apr-July	882.7	2839
Mill Creek nr Moab	5.5	112	Apr-July	1.4	4.9
Navajo Reservoir Inflow	600	101	Apr-July	--	597
San Juan nr Bluff, Utah	930	109	Apr-July	122.8	853
FREMONT RIVER					
Seven Mile Crk nr Fish Lake	7.0	109	Apr-July	--	6.4b

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average †
PRICE RIVER	Scofield	65.8	17.3	29.1	30.0
SAN RAFAEL	Huntington North	3.9	2.7	3.4	2.2
	Joe's Valley	54.6	34.1	37.4	31.6
	Mill Site	16.7	1.2	1.7	--
SAN JUAN	Navajo	1696.0	934.8	1120.7	--

+ - 1958-72 15 Year Average Period

b - Average of all past record - less than 15 years

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
PRICE RIVER	7	483	130
SAN RAFAEL RIVER	6	398	143
FREMONT RIVER	3	394	166
LASAL MOUNTAINS	2	809	151
BLUE MOUNTAINS	2	756	124

1 - Observed flow corrected for change in storage and diversions

2 - Provisional flows - Subject to correction

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a)	
	Forecast Range	Average †
Ferron Creek near Ferron	650-800	419
Muddy Creek near Emery	150-250	157

(a) - Maximum mean daily peak flow

WATER RESOURCES DIVISION, M7-N-22027X

+ 1958-1972 period

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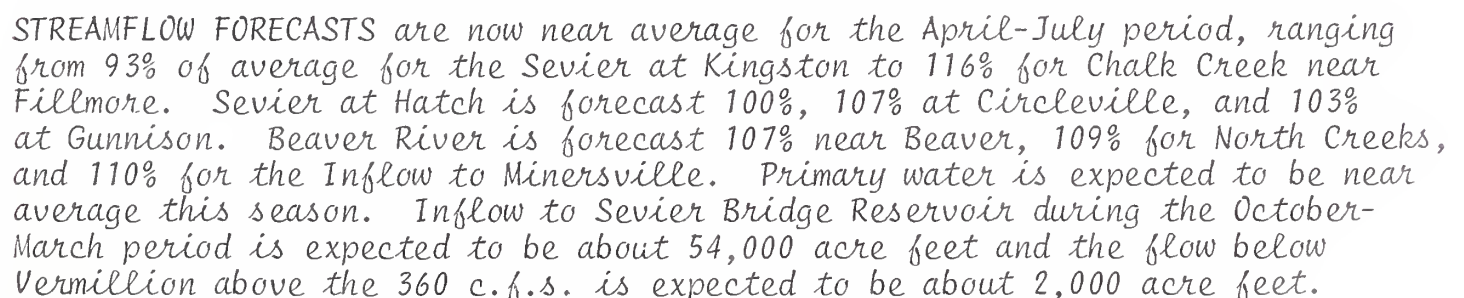
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SEVIER RIVER BASIN including BEAVER RIVER in UTAH

STREAMFLOW FORECASTS

BASIN STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST	FORECAST		THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
SEVIER RIVER					
Sevier at Hatch	40	100	Apr-July	10.6	40
Sevier nr Circleville	30	107	Apr-July	--	28
Sevier nr Kingston	19.5	93	Apr-July	1.9	21
Antimony Crk nr Antimony	7.4	101	Apr-July	--	7.3
East Fork Sevier nr Kingston	14.4	100	Apr-July	--	14.4
Sevier below Piute Dam ¹	33	100	Apr-July	--	33
Clear Crk nr Sevier (abv Div)	17.2	115	Apr-July	4.1	15.0
Inflow					
Kingston to Vermillion Dam	47	94	Apr-June	--	50
Vermillion Dam to Gunnison	40	103	Mar-June	--	39
Salina Creek at Salina	8.5	105	Apr-June	0.1	8.1b
Sevier nr Gunnison	40	103	Apr-July	15.4	39
Chalk Creek nr Fillmore	18.0	116	Apr-July	--	15.5b
SAN PITCH RIVER					
Ephraim Creek nr Ephraim	16.7	120	Apr-July	--	13.9b
Pleasant Crk nr Mt. Pleasant	9.4	121	Apr-July	--	7.8
BEAVER RIVER					
Beaver nr Beaver	21.4	107	Apr-July	6.1	20
North Creek (Combined)	12.8	109	Apr-July	--	11.7
Minersville Reservoir Inflow	6.4	110	Apr-July	--	5.8

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average†
<u>SEVIER RIVER</u>	Gunnison	18.2	2.5	2.7	12.2
	Otter Creek	52.5	21.8	31.1	29.4
	Piute	71.8	21.0	24.2	43.0
	Sevier Bridge	236.0	81.7	117.7	100.0
<u>BEAVER RIVER</u>	Minersville (Rky Fd)	23.3	5.6	7.6	13.0
b - Average of all past record - less than 15 years					
+ - 1958-72 15 Year Average Period					

FORECAST DATE of LOW FLOW VALUES

FORECAST POINT	Low Flow Value Second/Ft.	Forecast Date Stream Will Recede to Low Flow Value	Average Date of Low Flow Value
Clear Creek nr Sevier-above Div.	5	July 25	July 28
Salina Creek at Salina	25	June 6	June 10
Sevier at Circleville	90	June 25	June 24
Sevier at Hatch (upper)	100	July 10	July 10

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and or SUB-WATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
UPPER SEVIER RIVER	9	585	130
East Fork Sevier	6	597	131
South Fork Sevier	6	671	130
LOWER SEVIER	6	292	140
BEAVER RIVER	2	373	132

1 - Observed flow corrected for change in storage and diversions
2 - Provisional flows - Subject to correction

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a)	
	Forecast Range	Average
Sevier River at Hatch	390-625	418
Sevier River nr Circleville	300-500	304
Sevier River nr Kingston	275-375	263
Clear Creek nr Sevier	170-210	170
Salina Creek nr Salina	175-210	235
Beaver River nr Beaver	175-250	212

(a) - Maximum mean daily peak flow

PRIMARY WATER RIGHT FORECASTS (PERCENT OF WATER RIGHT DELIVERED)

RIVER SECTION	Percent Forecast For This Year	Average Percent Delivered During 15 Year Period	Forecast Period
SEVIER RIVER			
Panguitch Valley	95	81	April-Sept
Circle Valley	78	65	April-Sept
Sevier Valley	50	38	April-Sept
Below Vermillion Dam	49	55	April-Sept

Inflow to Sevier Bridge Reservoir for the October-March period is expected to be about 54,000 acre feet.

The flow below Vermillion - Above 360 cfs is expected to be 2,000 acre feet.

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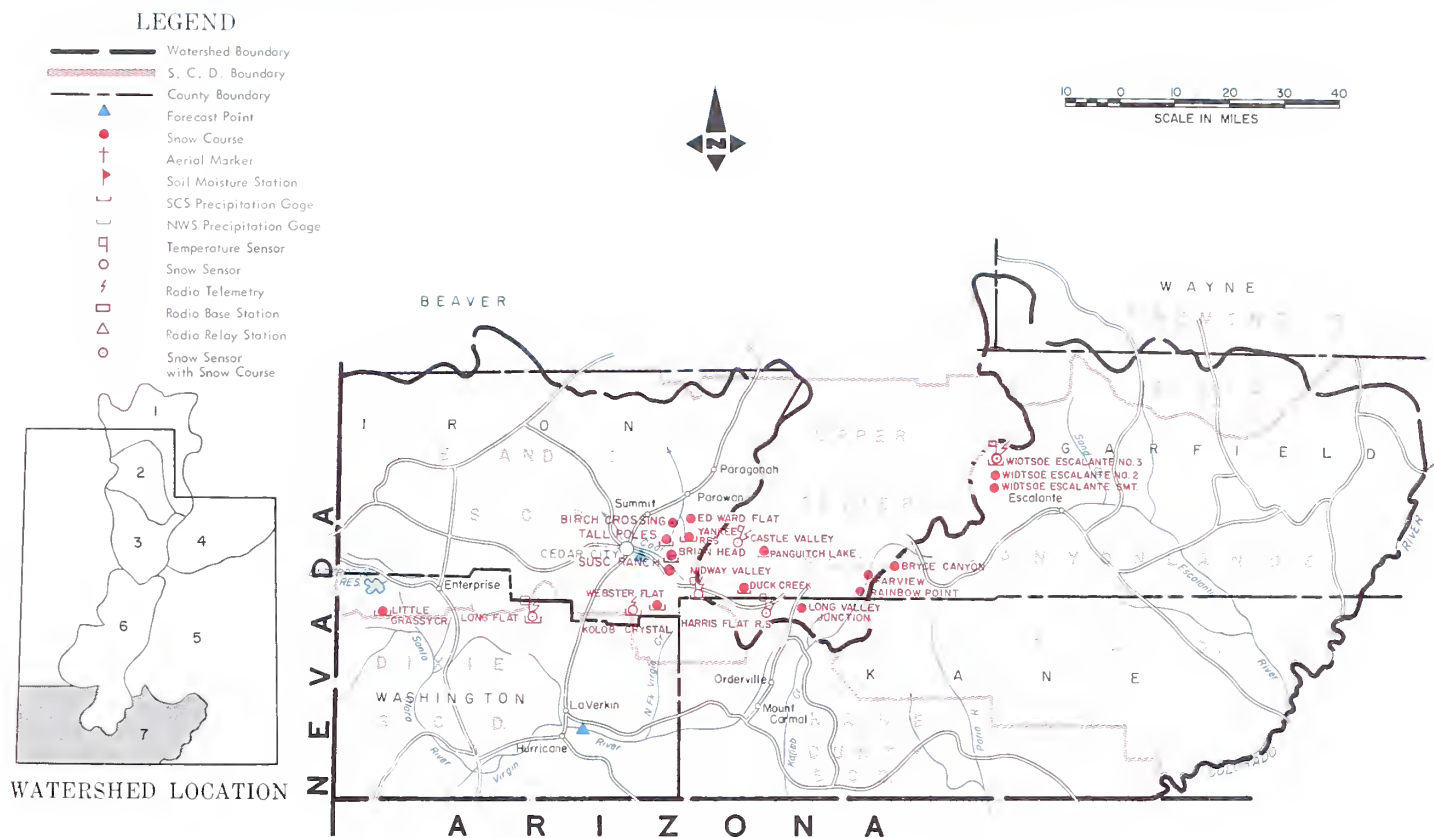
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WATER SUPPLY OUTLOOK

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

UNITED STATES DEPARTMENT OF AGRICULTURE-SOIL CONSERVATION SERVICE
UTAH STATE DEPARTMENT OF NATURAL RESOURCES-DIVISION OF WATER RIGHTS



MARCH 1, 1978

THE WATER SUPPLY OUTLOOK IS ABOVE AVERAGE

SNOW COVER now ranges from 119% of the March 1 average on Parowan Creek to 185% on Enterprise-New Harmony drainages. Coal Creek is now 142% and Virgin River is 180% of average as measured the last week of February.

PRECIPITATION at mountain stations was as much as three times average. Webster Flat caught 9.40 inches during February and Little Grassy above Enterprise caught 7.40 inches through February 23 and another 7.5 inches from the 23rd to March 6. This heavy warm precipitation around the first of March melted snow below about 7,000 feet and then replaced about 10 inches of snow at Little Grassy by the sixth of March.

SOIL MOISTURE is above average over most of the area.

RESERVOIR STORAGE is now reported as near or above average after heavy precipitation and snowmelt caused above average runoff on the Virgin and Enterprise-New Harmony watersheds. Gunlock Reservoir was reported to be spilling March 3, Lower Enterprise Reservoir was also full and Upper Enterprise lacked about four feet of filling on March 6.

STREAMFLOW FORECASTS now range from 108% of average for Virgin River to 150% for the Santa Clara for the April-June period. Heavy flow has already occurred on these streams as a result of the warm, wet storm about March 1. Coal Creek is forecast 124% of average and Lake Powell Inflow 119%. Maximum mean daily peak flows from snowmelt are expected to be about 1½ to 2 times normal and could be higher if warm rain and temperatures cause faster than usual runoff.

EAST GARFIELD, KANE, WASHINGTON and IRON COUNTIES in UTAH

STREAMFLOW FORECASTS

BASIN, STREAM and/or FORECAST POINT	THIS YEAR		FORECAST PERIOD	PAST RECORD	
	FORECAST			THOUSAND ACRE FEET	
	Thousand Acre Feet	Percent of Average		Last Year	Average
<u>VIRGIN RIVER</u>					
Virgin nr Virgin	52	108	Apr-June	24.7e	48b
Santa Clara nr Pine Valley	5.4	150	Apr-June	0.8	3.6b
<u>COAL CREEK</u>					
Coal Creek nr Cedar City	20	124	Apr-July	3.6	16.1
<u>UPPER COLORADO</u>					
Lake Powell Inflow	8182	119	Apr-July	1130	6881
2 - Provisional Flows - Subject to correction					

SUMMARY of SNOW MEASUREMENTS (COMPARISON WITH PREVIOUS YEARS)

RIVER BASIN and/or SUBWATERSHED	Number of Courses Averaged	THIS YEAR AS A PERCENT OF	
		Last Year	Average
COAL CREEK	3	853	142
VIRGIN RIVER	2	1136	180
PAROWAN CREEK	3	403	119
ENTERPRISE - NEW HARMONY	2	1480	185

RESERVOIR STORAGE (Thousand Acre Feet)

BASIN OR STREAM	RESERVOIR	Usable Capacity	USEABLE STORAGE		
			This Year	Last Year	Average
<u>COLORADO</u>	Lake Powell	25002.0	14555.0	17985.0	8401.0b
	Blue Mesa	829.5	235.1	393.2	--
b - Average of all past record - less than 15 years					
+ - 1958-72 15 Year Average Period					

PEAK FLOWS

FORECAST POINT	PEAK FLOW (SECOND FEET) (a)	
	Forecast Range	Average
Coal Creek nr Cedar City	100-380	245
Virgin nr Virgin	800-1250	631b
(a) - Maximum mean daily peak flow		

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SNOW

SNOW	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)						
	DRAINAGE BASIN and/or SNOW COURSE NAME	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT 1 TO DATE		
					Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
GREAT BASIN												
UPPER BEAR RIVER (Above Harer, Idaho)												
Big Park	2/27	71	25.8	5.2	18.1							
Burts-Miller Ranch	2/28	19	4.3	1.2	--	2/28	1.20	--	6.84	--	--	
CCC Camp	2/27	49	16.4	3.2	11.4							
Hayden Fork	2/28	48	14.6	5.0	--	2/28	3.35	--	19.02	--	--	
Kelly R.S.	2/27	66	24.0	4.2	16.8	2/27	3.30	--	--	--	--	
Monte Cristo R.S.	2/23	64	25.0	4.9	22.3	2/23	3.43	4.62b	23.29	22.89b	102	
Piney LaBarge	Discontinued											
Poison Meadows	3/1	108	39.4	7.8	26.3							
Salt River Summit	2/27	62	21.2	4.2	14.6	2/27	3.58	3.36	20.33	14.17	143	
Snyder Basin	3/1	65	21.8	3.0	15.5							
Stillwater Camp	2/28	36	10.1	3.1	--	2/28	1.98	--	10.87	--	--	
LOWER BEAR RIVER (Below Harer, Idaho)												
Bug Lake	2/23	52	18.5	--	--							
Christensen Ranch	2/24	33	11.2	3.4	7.7							
Cliff Canyon	2/24	37	12.3	1.2	--							
Cub River R.S.	2/24	30	11.0	4.5	8.0							
Daniels Creek	2/24	25	7.9	0.8	--							
Dry Basin	2/24	89	33.8	6.7	25.3a							
Dry Creek Flat	2/24	31	11.3	1.1	6.6							
Emigrant Summit	2/24	82	28.2	4.3	21.8a							
Emigration Canyon	2/24	41	13.2	2.7	9.7a							
Franklin Basin	2/24	69	26.7	7.0	22.4a							
Garden City Summit	2/24	51	18.1	3.2	16.1	2/24	2.54	4.00b	20.54a	16.68b	123	
Horseshoe Basin	2/24	78	31.9	6.9	23.2							
Klondike Narrows	2/24	61	22.6	5.7	17.9	2/24	2.76	5.25b	23.77	19.03b	125	
Liberty Springs	2/24	116	44.4	7.0	33.8a							
Little Bear (lower)	2/23	37	11.8	2.1	10.1							
Little Bear (upper)	2/23	41	12.3	3.1	9.8							
Lower Elkhorn	2/24	54	19.9	1.8	12.4a							
Oxford Mountain	2/24	38	12.6	1.0	9.4							
Slug Creek Divide	3/1	64	21.4	5.0	14.7a							
Steep Hollow #1	2/24	100	38.1	8.5	30.8b							
Steep Hollow #2	2/24	79	30.0	6.4	22.9b							
Strawberry Creek	2/24	38	12.4	2.1	9.6							
Strawberry Mink Divide	2/24	72	25.6	3.4	18.6							
Tony Grove Lake	2/24	110	42.5	8.1	--							
Tony Grove R.S.	2/24	40	13.6	3.0	11.2	2/24	2.33	2.52a	19.63	15.61a	126	
Upper Elkhorn	2/24	68	24.4	3.4	16.0a							
Willow Flat	2/24	53	18.7	2.6	13.7	2/24	3.11	4.16b	26.90	19.02b	141	
Worm Creek	2/24	62	22.5	3.9	--							
RAFT RIVER												
Clear Creek Meadows	2/28	64	20.9	3.9	18.2a							
George Peak	2/28	68	24.5	--	--							
One Mile Summit	2/28	17	4.5	0.9	6.8a							
Vipont (A)	2/28	46	15.0	4.0	12.7a							
OGDEN RIVER												
Beaver Creek-Skunk Creek	2/23	35	13.9	1.3	10.7							
Ben Lomond Peak	2/23	120	43.7	6.8	30.1b							
Ben Lomond (lower)	2/23	60	22.4	4.1	13.0	2/23	7.37	4.44b	29.35	21.25b	138	
Ben Lomond Trail						2/23	7.34	3.91a	--	20.52a	--	
Causey Dam						2/23	1.53	2.96a	10.30	12.03a	86	
Cutler Creek	2/23	104	35.0	5.1	23.4b							
Dry Bread Pond	2/23	52	19.9	3.3	15.3	2/23	3.25	3.91b	--	17.21b	--	
Sagebrush Flat	2/23	12	3.9	1.0	4.4	2/23	1.94	2.71	12.31	12.04	102	
WEBER RIVER												
Beaver Creek R.S.	3/3	32	8.1	2.0	7.7							
Chalk Creek #1	2/28	65	20.2	5.7	18.1							
Chalk Creek #2	2/28	43	12.1	4.4	11.9							
Chalk Creek #3	2/28	23	5.8	3.0	6.5	2/28	1.73	1.96a	11.13	9.53a	117	
East Shingle Lake (A)		Data Delayed		7.4	--							
Farmington Canyon (lower)	2/23	71	24.8	7.1	18.2	2/23	6.30	4.83	26.40	22.14	119	
Farmington Canyon (upper)	2/23	92	30.7	8.8	24.1							
Farmington G.S.						2/23	6.40	--	28.49	--	--	

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FROM APPROX. OCT. 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
WEBER RIVER (cont'd)											
Horse Ridge	2/23	57	21.1	3.9	19.9b	2/23	3.03	--	21.65	22.61a	96
Killfool Creek	2/23	43	13.6	3.1	12.6b						
Lost Creek Reservoir	2/23	22	7.7	0.9	--	2/23	1.66	--	9.78	--	--
Park City Summit	2/27	67	23.4	12.2	--						
Parley's Canyon Summit	2/27	58	18.4	6.8	15.5	2/27	5.25	4.08	21.82	18.16	120
Redden Mine (lower)		Not Measured		4.9	15.4						
Redden Mine (upper)		Not Measured						--		16.26a	
Sergeant Lake (A)		Not Measured		4.8	--						
Smith & Morehouse	2/27	37	10.9	2.9	11.9b	2/27	3.12	3.32	15.88	14.94	106
PROVO RIVER & UTAH LAKE											
Beaver Creek Divide	2/22	42	13.0	3.9	--						
Camp Altamont	2/28	58	18.8	3.9	12.8						
Clear Creek Ridge #1		Not Measured		5.0	15.1						
Clear Creek Ridge #2		Not Measured		4.6	11.3			2.78		12.52	
Clear Creek Ridge #3		Not Measured		2.0	6.9						
Dutchman R.S.	2/28	67	21.8	4.3	15.0	2/28	6.60	--	25.10	17.82	141
Hobble Creek Summit	2/28	58	17.0	4.3	11.9	2/28	5.40	--	16.70	13.88	120
Packard Canyon	2/28	43	13.2	3.2	8.6						
Payson R.S.	3/7	66	20.3	--	14.6	3/7	7.55	3.64	20.65	14.63	141
Rock Bridge	3/7	35	11.2	--	10.0						
Soapstone R.S.	3/3	47	12.6	3.5	11.3	3/3	4.27	3.03	16.25	13.22	123
South Fork R.S.	2/27	37	11.3	3.0	4.9						
Timpanogos Cave Camp	2/27	6	2.0	0.4	2.2						
Timpanogos Divide	2/28	77	24.2	5.0	20.9	3/1	7.70	4.37	26.77	21.09	127
Trial Lake	3/3	87	25.8	5.1	20.5	3/3	7.05	4.34	25.32	19.26	131
JORDAN RIVER & GREAT SALT LAKE											
Lamb's Canyon	Discontinued										
Lamb's Canyon #2	2/27	49	16.0	5.9	--	2/27	3.38	--	16.90	--	--
Middle Canyon	2/25	32	10.9	5.5	11.3	2/25	4.20	3.52b	--	13.42b	--
Mill Creek	2/23	56	17.4	7.8	--						
Mill D South Fork	2/28	56	18.4	7.0	16.8						
Mt. Dell Dam						3/1	2.14	2.36	10.81	11.08	98
Rocky Basin-Settlement Canyon	Not measured										
Silver Lake (Brighton)	2/24	74	24.4	5.8	19.6	3/1	5.80	4.94	24.23	22.67	107
Snow Bird (Gad Valley)	3/3	119	33.8	11.4	--						
Vernon Creek	2/25	45	14.5	2.0	--	2/25	7.25	--	18.50	--	--
UPPER SEVIER RIVER (South of Richfield, Utah)											
Box Creek	2/24	35	10.2	4.3	10.5	2/24	2.80	--	12.23	11.05	111
Bryce Canyon	2/28	26	8.1	0.3	3.6						
Castle Valley	2/23	40	11.2	2.7	11.1	2/23	4.90	--	12.00	11.86	101
Duck Creek R.S.	2/23	56	16.8	0.3	11.1	2/23	7.10	3.18b	17.60	14.23b	124
Farview	2/27	31	5.6	1.2	--						
Harris Flat	2/23	43	12.9	0.1	7.3						
Kimberly Mine	2/24	46	13.1	5.4	11.9	2/24	3.25	2.90b	15.45	13.24b	117
Midway Valley	2/23	63	19.8	3.1	17.3	2/23	8.15	--	18.90	--	--
Panguitch Lake	2/23	24	7.3	0.5	3.8	2/23	2.30	--	7.30	5.95b	123
Rainbow Point	2/27	37	7.0	1.2	--						
Squaw Springs	2/24	28	7.7	1.6	6.1						
Widtsøe R.S. 3NNE						3/1	1.05	--	--	--	--
LOWER SEVIER RIVER (Including San Pitch River)											
Beaver Dams	3/6	59	16.7	--	9.5	3/6	7.65	--	18.27	10.52	174
Farnsworth Lake	2/24	55	17.6	7.2	14.2	2/24	4.05	3.93	15.25	14.76	103
G.B.R.C. Headquarters	3/7	67	19.7	5.5	13.3	3/7	6.80	3.90	20.85	14.30	146
G.B.R.C. Majors						3/1	2.30	2.10	9.87	8.00	123
G.B.R.C. Meadows	3/7	87	28.7	8.5	19.2	3/7	9.40	4.90	26.25	18.00	146
G.B.R.C. Oaks						3/1	2.95	2.60	12.10	9.60	126
Gooseberry R.S.	2/24	40	11.1	5.9	9.3	2/24	2.50	3.12b	12.35	10.06	123
Mammoth-Cottonwood Creek	3/2	70	22.8	5.7	17.1b	3/2	5.50	3.76b	23.63	15.30b	154
Middle Fork	Not Measured			--	--						
Mt. Baldy R.S.	3/6	99	29.8	--	17.8	3/6	9.20	--	22.50	13.86b	162
Oak Creek	Not Measured			5.0	--			--		--	
Pickle Keg Springs	Not Measured			--	--						
Pine Creek	2/23	60	19.1	8.0	12.2	2/23	5.35	--	24.40	17.64	138
Ree's Flat	Not Measured			--	9.6						

SNOW

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)					
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (Inches)		CURRENT INFORMATION			FRDM APPROX. OCT 1 TO DATE		
				Last Year	Average †	Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
LOWER SEVIER RIVER (cont'd)											
Shingle Mill		Not Measured		3.4	7.1			2.59b		10.73b	
Thistle Flat		Not Measured		--	--						
BEAVER RIVER											
Beaver Race Track	2/28	2	0.5	0.0	--						
Beaver Canyon Power House						3/1	2.82	1.92	9.91	1.08	140
Big Flat	2/23	56	17.4	4.7	13.2	2/23	4.15	3.43	17.28	12.90	134
Merchant's Valley (upper)	2/24	45	13.4	3.8	--	2/24	3.63	2.83a	15.78	10.82a	146
Otter Lake	2/23	49	14.3	3.8	10.9						
PAROWAN CREEK											
Birch Crossing	2/27	26	7.5	0.5	--						
Brian Head	2/23	58	19.0	4.5	17.2a						
Ed Ward Flat	2/23	31	8.7	1.9	6.1						
Tall Poles	2/27	42	12.7	3.6	--	2/27	4.15	2.49a	12.60	14.71a	86
Yankee Reservoir	2/23	33	9.0	2.7	7.5	2/23	3.70	--	11.20	9.13b	123
ENTERPRISE TO NEW HARMONY DRAINAGES											
Little Grassy Creek	2/23	20	6.8	0.0	3.1b	2/23	7.40	--	16.45	11.25b	140
Long Flat	2/23	28	8.0	0.1	4.9	2/23	2.80	--	9.60	8.61b	111
COAL CREEK											
Cedar City Golf Course	2/23	0	0.0	0.0	--						
SUSC Ranch	2/27	34	11.2	0.2	5.5a						
COLORADO RIVER DRAINAGE											
UPPER GREEN RIVER - UTAH											
Ashley-Twin Lakes (A)		Data Delayed		2.7	--						
Black's Fork G.S.-East Fork	2/28	34	8.5	3.3	7.5b	2/28	2.00	--	10.93	9.43b	116
Black's Fork Junction	2/28	33	8.5	2.4	8.2b	2/28	1.86	--	10.35a	9.25b	112
Buck Pasture (A)		Data Delayed		6.5	--						
Burnt Creek	2/27	17	4.5	1.4	--	2/27	1.30	1.06b	5.25	7.53b	70
Grizzly Ridge	2/27	31	9.2	2.0	--	2/27	3.65	1.93b	9.10	11.24b	81
Henry's Fork (A)		Data Delayed		3.8	--						
Hewanta G.S.	2/28	31	7.3	2.4	7.4b	2/28	1.94	--	11.59	9.95b	117
Hickerson Park	2/28	22	4.6	1.7	5.1b	2/28	1.20	--	5.30	6.65a	80
Highline Trail	2/28	34	7.8	2.6	--	2/28	--	--	10.48	--	--
King's Cabin (lower)	2/28	30	7.7	0.7	6.9						
King's Cabin (upper)	2/28	35	8.4	1.1	8.3	2/28	3.60	--	8.95	9.10	99
Reynolds Park (A)		Data Delayed		2.2	--						
Spirit Lake	2/28	35	8.4	3.4	10.0b	2/28	3.12	--	9.37	11.51b	82
Steel Creek Park	2/28	50	14.1	--	12.2b						
Trout Creek	2/28	36	8.2	1.7	--	2/28	3.10	--	7.82	--	--
Windy Park (A)		Data Delayed		0.3	--						
Dutch John Junction	2/27	15	4.5	--	--						
DUCHESNE RIVER											
Atwood Lake (A)		Data Delayed		1.4	--						
Brown Duck Ridge		Not Measured		4.1	--						
Chepeta-Whiterocks (A)		Data Delayed									
Currant Creek	2/28	41	11.8	1.5	--	2/28	3.40	--	13.03	--	--
Daniel's-Strawberry Summit	2/28	50	15.7	3.7	12.2	2/28	4.70	3.39	20.13	14.69	138
East Portal	2/28	46	14.0	3.0	9.6	2/28	3.74	3.20b	18.23	15.08b	117
Five Points Lake (A)		Data Delayed		3.6	--						
Indian Canyon	2/28	44	12.0	2.8	10.3	2/28	3.53	2.18b	12.96	11.25b	116
Jackson Park		Not Measured		2.6	--						
Lake Basin		Not Measured		4.5	--						
Lakefork Basin (A)		Data Delayed		4.5	--						
Lakefork Mountain	3/6	51	10.7	1.6	9.5	3/6	4.57	2.13	13.60	10.22	133
Lakefork Mountain #2	Not measured			--	6.8						
Lakefork Mountain #3	3/6	39	7.9	0.6	5.6						
Lightning Lake (A)		Data Delayed		4.1	--						
Mosby Mountain	3/2	40	9.2	1.4	8.4	3/2	4.10	1.98a	11.23	9.16a	123
Paradise Park	3/2	47	11.9	1.1	10.5	3/2	4.72	2.23b	11.87	12.95b	92
Rock Creek Ranch	3/6	38	9.2	1.2	--	3/6	4.38	--	12.28	--	--
Shadow Lake (A)		Not Measured									
Strawberry Divide	2/28	62	20.0	5.5	16.2						

SNOW

PRECIPITATION (Inches)

DRAINAGE BASIN and/or SNOW COURSE NAME	THIS YEAR			PAST RECORD		PRECIPITATION (Inches)			FROM APPROX. OCT 1 TO DATE		
	Date of Survey	Snow Depth (Inches)	Water Content (Inches)	Water Content (inches)		Date of Reading	Month's Precipitation	Average †	This Year	Average †	Percent of Average
				Last Year	Average †						
PRICE RIVER											
Dry Valley Divide	2/28	41	13.0	2.7	9.6						
Gooseberry Reservoir	3/2	64	21.6	4.3	15.2	3/2	5.90	3.94	23.39	15.00	156
Jones Ranch	2/28	25	6.2	1.4	5.8						
Mud Creek	2/28	53	14.8	2.5	11.4	2/28	3.30	2.74b	15.55	11.60b	134
White River #1	2/28	43	13.0	3.4	11.3	2/28	2.55	--	13.70	11.08	124
White River #2	2/28	34	9.6	2.0	7.9						
White River #3	2/28	34	10.6	2.1	7.3						
SAN RAFAEL RIVER											
Buck Flat	3/6	77	22.7	5.6	13.5	3/6	8.10	3.97	22.65	14.29	158
Huntington-Horseshoe	3/2	76	26.7	8.6	--						
Orange Olsen	3/2	29	8.0	1.0	--	3/2	3.50	1.65a	9.05	7.93a	114
Red Pine Ridge	3/2	62	18.4	5.3	14.9	3/2	6.15	4.42	22.28	16.82	132
Rush Pond	3/6	71	19.6	4.5	11.7						
Seeley Creek R.S.	3/7	65	21.2	3.4	13.7						
Stuart R.S.	Not Measured			1.4	--						
Upper Joe's Valley	3/2	49	12.8	2.8	9.1						
Wrigley Creek	3/3	51	14.0	4.4	9.3						
MUDDY RIVER											
Black's Fork	3/4	61	17.9	5.5	--						
Dill's Camp	3/4	58	18.8	4.2	--	3/4	5.90	--	18.73	--	--
FREMONT RIVER											
Black's Flat-U.M. Creek	2/24	41	12.2	4.7	8.6	2/24	3.05	--	13.42	9.34	144
Fish Lake	2/24	30	9.6	1.1	5.6	2/24	2.40	1.71	10.50	7.47	141
Johnson Valley	2/24	32	9.7	2.2	4.8b						
SOUTHEASTERN UTAH DRAINAGES											
Buckboard Flat	2/27	36	10.2	1.2	10.0	2/27	4.31	--	11.62	15.00	78
Camp Jackson	2/27	44	14.0	2.0	9.5	2/27	5.08	--	15.90	13.40b	119
LaSal Mountain (lower)	2/28	40	11.6	0.8	7.0						
LaSal Mountain (upper)	2/28	58	16.7	2.7	11.7b	2/28	4.45	--	16.27	12.26b	133
Monticello City Park	2/28	8	2.7	0.0	--						
ESCALANTE RIVER											
Widtsoe-Escalante Summit	2/27	32	8.7	0.6	5.7						
Widtsoe-Escalante #2	2/27	33	8.6	0.8	7.3						
Widtsoe-Escalante #3	2/27	42	11.6	1.6	8.9b	2/27	4.71	2.53	12.05	10.37	117
VIRGIN RIVER											
Kolob-Cristal	2/23	69	22.8	3.0	--						
Long Valley Junction	2/23	33	10.8	0.0	3.9						
Webster Flat	2/23	63	21.0	2.8	13.8	2/23	9.40	3.92	21.40	15.67	137
a - Partly Estimated b - Average of all past record - less than 15 years + - 1958-72 15 year average period (A) - Aerial Marker Reading											

a - Partly Estimated
b - Average of all past record - less than 15 years
+ - 1958-72 15 year average period
(A) - Aerial Marker Reading

INDEX TO UTAH, BEAR & UPPER COLORADO RIVER BASINS

FO	STATE	NAME	SEC	TWP	R	ELEV	FO	STATE	NAME	TWP	ELEV	FO	STATE	NAME	SEC	TWP	R	ELEV	FO	STATE	NAME	SEC	TWP	R	ELEV
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GREAT BASIN DRAINAGE

UPPER BEAR RIVER (above Harer, Idaho)																				
10G11	W	Big Park	7	27N	117W	8,700	11J41P	U	Lamb's Canyon #2	21	15	3E	7,400	9J12ap	U	Windy Park	1	15	20E	9,400
10J3P	U	Burt's-Miller Ranch	19	3N	10E	7,900	11J44	U	Middle Canyon	8	45	3E	7,000							
10G12P	W	CCC Camp x	29	29N	118W	7,500	11J44	U	Mill Creek	32	15	3E	6,500							
10J36P	W	Gold Hill	11	1N	9E	10,000	12J1P	U	Mill D South Fork	18	23	3W	8,900	10J40P	U	Arwood Lake	13	4N	4W	10,500
10J7PST	U	Hayden Fork	25	1N	9E	9,400	12J1P	U	Rocky Basin-Saltwater Canyon	30	45	3W	8,900	10J50PST	U	Brown Duck Ridge	8	2N	4W	10,800
10G12	W	Kelly Ranger Station	13	36N	118W	8,200	11J16P	U	Silver Lake (Brighten)	35	25	3E	8,725	9J9ap	U	Chato-Whiterocks Lakes	31	15	17E	10,300
10G17S	W	Labarge Guard Station x	37	20N	116W	9,000	11J42	U	Snow Bird (Good Valley)	18	35	3E	10,000	11J32AMPST	U	Curant Creek	3	15	10W	7,800
10J35P	U	Lily Lake	34	2N	10E	9,300	12K1PST	U	Vernon Creek	21	10S	5W	7,500	11J23AMPST	U	Daniels-Strawberry Summit	36	25	12W	8,000
11H12PST	U	Monte Cristo R.S.	4	8N	4E	8,960			UPPER SEVIER RIVER (South of Richfield, Utah)					11J7P	U	East Portal	36	75	6E	7,560
10G10	W	Piney Labarge x	19	29N	114W	8,820	12L4PST	U	Box Creek	33	26S	2W	9,800	10J26ap	U	Five Point Lake	28	4N	5W	11,000
10G6	W	Poison Meadows x	29	30N	116W	8,500	12M8	U	Byrce Canyon	36	36S	4W	8,000	10K1PST	U	Indian Canyon	2	11S	10E	9,100
10G8P	W	Salt River Summit x	32	29N	118W	7,900	12M13PST	U	Castle Valley	23	36S	8W	9,700	10J134p	U	Johnson Park	23	3N	4W	11,300
10G13MP	W	Snyder Basin x	15	29N	115W	8,400	12M4P	U	Duck Creek R.S.	11	38S	8W	8,700	10J39P	U	Kidney Lake	28	5N	3W	11,000
10J17P	U	Stillwater Camp	32	2N	10E	8,550	12M18	U	Farview	32	37S	4W	8,200	10J39P	U	Lake Basin	23	3S	8W	10,800
LOWER BEAR RIVER (below Harer, Idaho)																				
11H37p5P	U	Bug Lake	18	11N	5E	7,950	12M5PST	U	High-Top Mountain	24	38S	7W	7,700	10J25ap	U	Lakefork Basin	13	4N	7W	11,100
11H36p	U	Christiansburg	5	13N	3E	8,400	11L9p	U	Fernsworth Lake	36	23S	1E	11,400	10J10PST	U	Lakefork Mountain	2 & 3	2N	5W	10,200
11H31	U	Cinnamon Creek	27	13S	41E	5,600	12M13PST	U	Kimberly Mine	11	27S	5W	9,300	10J11	U	Lakefork Mountain #2	17	2N	4W	8,900
11H38p	U	Cinnamon Creek	8N	3E	7,300	12M2MPST	U	Midway Valley	26	37S	9W	8,200	10J12	U	Lakefork Mountain #3	29	2N	4W	8,100	
12H1P	U	Clarkston Mountain	29	14N	2W	6,300	12M7P	U	Panguitch Lake	4 & 5	36S	9W	8,700	10J29ap	U	Lightning Lake	24	4N	8W	10,950
11G12	U	Cub River Ranger Station	5	15S	41E	5,400	12M19	U	Rainbow Point	29	38S	4W	9,100	9J5PST	U	Moby Mountain	27	2S	18E	9,500
11G14a	U	Dry Creek Flat	30	13S	42E	7,900	12L5	U	Squaw Springs	3	27S	2W	9,300	9J3P	U	Paradise Park	7	3N	1E	10,100
12G4	U	Dry Creek Flat	31	13S	37E	6,350	11M4p	U	Wildrose R.S.	22	34S	2W	7,400	10J18P	U	Rock Creek	21	2N	7W	7,900
11G6	U	Emigrant Summit	21	12S	42E	7,350			LOWER SEVIER RIVER (Including San Pitch River)					10J32P	U	Shadow Lake	28	3N	8W	10,150
11G7	U	Emigrant Canyon (mouth)	24	12S	42E	6,500	11K13P	U	Beaver Dam	27	19S	3E	8,000	11J35P	U	Strawberry Divide	34 & 35	7S	6E	8,000
11G8MPST	U	Franklin Basin	34 & 35	16S	41E	8,000	11L1PST	U	Fernsworth Lake	27 & 33	23S	2E	9,900			West Fork of the Duchesne	22	1N	19E	10,250
11H7MP	U	Garden City Summit	1	14N	4E	7,600	11K11P	U	G.B.R.C. Headquarters	21	17S	3E	8,700			PRICE RIVER				
13H4PST	U	Geard Peak	4	13N	4W	9,000	11K10P	U	G.B.R.C. Meadows	26 & 27	17S	4E	10,000	10K5M	U	Corral	32	13S	14E	8,200
11H46p	U	Herd Hollow	4	13N	3E	7,000	11L2PST	U	Gooseberry R.S.	22	23S	2E	8,400	11K8	U	Dry Valley Divide	20	12S	8E	7,800
11H47	U	Transverse Basin	31	13S	42E	9,000	11K34P	U	Monmouth R.S.-Cottonwood Creek	13	13S	5E	8,800	10K3M	U	Gassy Trail Creek-Left Fork	2	14S	13E	7,970
11H1MP	U	Liberty Springs	10	14N	4E	9,000	11K34P	U	Monmouth R.S.-Cottonwood Creek	13	13S	5E	8,800	11K33MP	U	Jones Ranch	32	12S	7E	7,600
11G13	U	Liberty Springs	7	13S	42E	8,200	11K34P	U	Middle Fork	16	18S	4E	9,600	11K33MP	U	Mud Creek	4	14S	7E	8,300
11H26	U	Little Bear (lower)	15	8N	1E	6,000	11K12P	U	Mt. Baldy R.S.	19	19S	4E	9,500	10K2AMPST	U	Timberline	28	13S	13E	9,100
11H25PST	U	Little Bear (upper)	22	8N	1E	6,550	12K29PST	U	Oak Creek	9	17S	3W	7,760	11K24	U	White River #1	11	10S	8E	8,550
12G3	U	Oxford Mountain	32	13S	37E	6,800	12L1PST	U	Pickles Keg Springs	4	21S	3E	9,600	11K25	U	White River #2	8 & 9	15S	7E	8,900
11G5	U	Slug Creek Divide	15	10S	44E	7,225	11K36	U	Pine Creek	24	16S	3E	9,700			White River #3	9	10S	8E	7,600
11H27	U	Steep Hollow #1	7	14N	3E	8,500	12L11P	U	Repa Fork	25	16S	2E	7,700				30	10S	8E	7,400
11H28	U	Steep Hollow #2	9	14N	3E	7,700	11K35	U	Thistle Flat	23	18S	3E	8,500			SAN RAFAEL RIVER				
11G9	U	Strawberry Creek	9	13S	41E	5,800			BEAVER RIVER					11K31PST	U	Buck Flat	23	19S	4E	9,400
11G10	U	Strawberry Mink Divide	14	13S	41E	5,800	12L13	U	Beaver Race Track	23	29S	7W	6,020	11K4P	U	Cody Reservoir	23	13S	3E	8,700
11H2PST	U	Tony Grove Lake	5	13N	3E	7,400	12L2PST	U	Big Flat	18	29S	4W	10,290	11K5	U	Hunting-Horsehoe	12	14S	3E	9,600
11H34P	U	Tony Grove Ranger Station	11	13N	3E	7,400	12L9PST	U	Merchant's Valley (upper)	8 & 9	29S	5W	8,200	11K28PST	U	Orange Olsen	31	14S	3E	9,300
11G4P	U	Willow Flat	2	13S	41E	6,100	12L8	U	Other Lake	1	29S	5W	9,300	11K38	U	Red Pine Ridge	5	16S	4E	9,500
OGDEN RIVER																				
11H4M	U	Beaver Creek-Skunk Creek	22	8N	3E	7,150	12M16	U	Brick Crossing	23	35S	9W	8,100	11K38	U	Rush Pond	24	19S	4E	9,600
11H8PST	U	Ben Lomond Peak	3	7N	1W	8,000	12M14	U	Brion Head	17	35S	9W	8,300	11K9PST	U	Seelye Creek	25	17S	4E	10,000
11H35p	U	Curtis Creek	34	7N	1W	8,300	12M12	U	Ed Word Flat	17	35S	9W	8,800	11K27P	U	Stuart R.S.	8 & 9	15S	7E	7,950
11H13MPST	U	Dry Broad Pond	19	8N	4E	8,200	12M15P	U	Tall Pines	26 & 35	35S	9W	8,800	11K29	U	Upper Joe's Valley	21	16S	6E	8,900
11H34p	U	Glinder's Peak	16	7N	2E	8,420	12M11P	U	Yankee Reservoir	20	35S	8W	8,700	11K32	U	Wrigley Creek	27	19S	5E	9,000
11H45p	U	Middle Fork Ogden	21	6N	4E	8,050			PAROWAN CREEK							MUDDY RIVER				
11H49	U	Powder Mountain Hidesway	6	7N	2E	8,250			Brick Crossing	23	35S	9W	8,100	11K14	U	Block's Fork	34	20S	4E	9,200
11H49	U	Powder Mountain Sundown	1	7N	1E	8,400			Brion Head	17	35S	9W	8,300	11K15PST	U	Dill's Camp	27	20S	4E	9,200
11H5P	U	Sagebrush Flat	21	7N	3E	6,300			Ed Word Flat	17	35S	9W	8,800							
WEBER RIVER																				
11J24	U	Beaver Creek R.S.	28	2S	7E	7,500	13M4MP	U	ENTERPRISE TO NEW HARMONY DRAINAGES	15	38S	17W	6,100	11L4P	U	Block's Flat-U.M. Creek	33	24S	3E	9,250
11J1PST	U	Chalk Creek #1	4	1N	6E	9,100	13M2MPST	U	Long Flat	2	38S	14W	8,000	11L5	U	Donkey Reservoir	9	20S	4E	9,800
11J2MPST	U	Chalk Creek #2	29	2N	8E	8,200	12M17	U	SUSC Ranch	18	37S	9W	8,200	11L3p	U	Fish Lake	35	26S	1E	9,700
11J3MP	U	Chalk Creek #3	7	2N	8E	7,500			COAL CREEK					11L6	U	Johnson Valley	24	25S	2E	8,850
11J12PST	U	Farmington Canyon (lower)	14	3N	1E	6,950			Cedar City Golf Course	11	36S	11W	5,800							
11J15PST	U	Farmington Canyon (upper)	26	3N	8E	8,000			SUSC Ranch	18	37S	9W	8,200	9M1P	U	Buckboard Flat	36	33S	22E	9,000
11J45p	U	Farmington Canyon (upper)	29	3N	4E	9,400								9M2P	U	Camp Jackson	22	34S	22E	8,600
11J45p	U	Farmington Canyon (upper)	29	3N	4E	9,400								9L1	U	LaSal Mountain	5	27S	24E	8,800
11J37P	U	Horseshoe Lake	6	2N	10W	6,500								9K2P	U	LaSal Mountain (upper)	3	27S	24E	9,400
11H2PST	U	Horse Ridge	1	6N	2E	8,260								9K3	U	Monticello Park	25	33S	23E	7,050
11H31P	U	Last Creek	20	6N	5E	7,300														
11H32P	U	Park City Summit	27	6N	5E	6,125														
11J35PST	U	Parley's Canyon Summit	20	2S	4E	9,300														
11H50	U	Pine Canyon	5	1S	3E	7,500														
11J8p	U	Porcupine	6	5N	4E	8,000														
11J8p	U	Porcupine	22	5N	4E	8,100														
11J9P	U	Reed Mine (lower)	1	2S	7E	7,500														
11J39p	U	Sagebrush Lakes	17	1N	5E	9,000														
11J40p	U	Shingle Mill Flat	15	1S	7E	9,900														
11J4PST	U	Smith & Morehouse	25	1N	7E	7,600														

Agencies Cooperating in Utah Snow Surveys

U.S. GOVERNMENT AGENCIES

U.S. Department of Agriculture
Soil Conservation Service
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of Interior
Bureau of Reclamation
Geological Survey
National Park Service

STATE AGENCIES

Utah State University
Utah Fish and Game Department
Utah State Department of Natural
Resources, Division of Water Rights
Bear River Commissioner
Price River Commissioner
Provo River Commissioner
Sevier River Commissioners
Spanish Fork River Commissioner
Utah Lake and Jordan River Commissioner

MUNICIPALITIES

Manti
Salt Lake City

ORGANIZED PUBLIC AGENCIES

Beaver River Water Users Association
Board of Canal Presidents - Jordan River
Emery Canal and Reservoir Company
Moon Lake Water Users Association
Ogden River Water Users Association
Provo River Water Users Association
Strawberry Water Users Association
Sevier River Water Users Association

PRIVATE AGENCIES

Kaiser Steel Corporation

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